

ANDREYEV, N.G., doktor sel'skokhochaystvennykh nauk, prof.; TEN, A.G.,
aspirant

Fertilizer application as a method for increasing the yield and
quality of hay from meadow grasses. Izv. TSKhA no.4:76-85 '61.
(MIRA 14:9)

(Pastures and meadows--Fertilizers and manures)

ANDREYEV, N.G.

Promote advanced work methods. NTO 3 no.4:4 Ap '61. (MIRA 14:3)

1. Predsedatel' TSentral'nogo pravleniya Nauchno-tehnicheskikh
obshchestv sel'skogo i lesnogo khozyaystva.
(Agricultural research)

ANDREYEV, N.G., doktor sel'skokh. nauk, prof.; FILIMONOV, D.A., aspirant

Practices in improving degenerated pastures. Izv. TSKHA no.1:
20-28 '63. (MIRA 16:7)

(Pastures and meadows—Fertilizers and manures)

ANDREYEV, Nikolay Gavrilovich, prof., doktor sel'khoz. nauk, zasl.
deyatel' nauki i tekhniki RSFSR; GRACHEVA, V.S., red.;
KOZLOVSKAYA, M.D., tekhn. red.; DEYEVA, V.M., tekhn. red.

[Agronomy] Agronomiia. Izd.2., perer. Moskva, Sel'khoz-
izdat, 1963. 487 p. (MIRA 17:2)

ANEFYEV, N.S., prof., doktor sel'skokhoz. nauk

Methods for establishing and using cultivated pastures in the
forest zone. Trv. TSKhA no.2479-58 '65. (MIRA 1819)

1. Katedra lugovodstva Moskovskoy akademii sel'skokhozyasystvennykh
nauk imeni Timiryazeva.

ANDREYEV, N.G., prof. doktor sel'skokhoz. nauk

Basic results of studies on meadow cultivation and their
introduction into the production. Izv. TSKHA no. 1:222-237
'65 (MIRA 19:1)

1. Kafedra lugovodstva Moskovskoy sel'skokhozyaystvennoy
ordena Lenina akademii imeni Timiryazeva.

UNIV/Media and Read Contr.

Ans J ur : Res Akur - Bi J., P. S., 1953, N. 39620

Author : Astaf'ev V.I.

Title : Urgent Measures for the Control of Podder (Casabata).

Title : Urgent Measures for the Control of Podder (Casabata).

Orig. Pub : S.-Kh. Turkestanist An, 1957, No 2, 52-54

Abstract : Podder has spread widely on Turkmenistan fields in the last few years. When there are only few bushes of infection in alfalfa fields, they are cut before flowering. Subsequently, the stubble must be treated with a 4 percent solution of sodium arsenite. The infected areas are usually repeatedly. Strongly infected planted fields are plowed entirely and are sprayed with a 4 percent solution of sodium arsenite. It is estimated that 800 l of a solution per 1 ha make a total of 32 kg sodium arsenite per 1 ha. The planted fields are watered in the 3-5th d. Cotton tree, grape and other crops must also be carefully weeded. -- V.D. Astaf'ev.

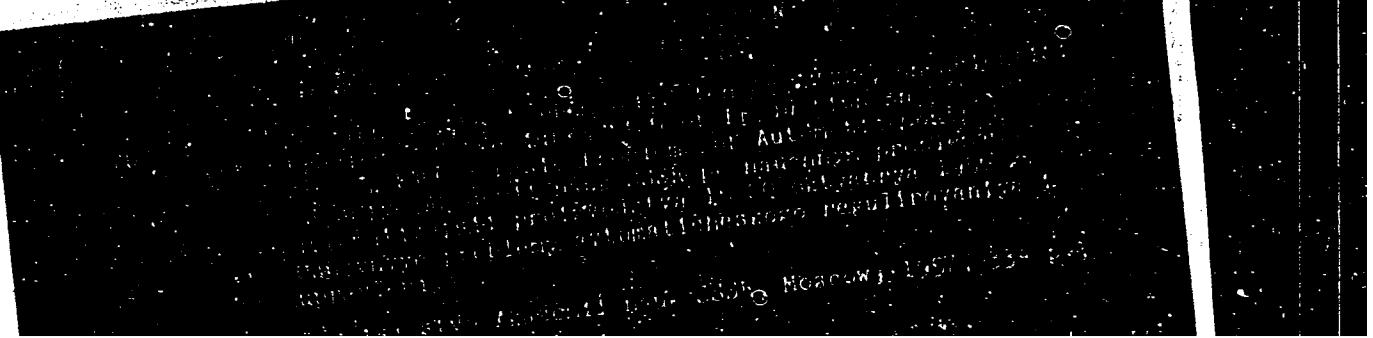
Contd : 1/1

43

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101520004-8

ANDREYEV N. I.



APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101520004-8"

Session of the Academy of Sciences, USSR, on Scientific Problems of the Automation of Production on October 15-20, 1956 (cont)

Pugachev, V.S. Present Status and Problems Relating to the Development of Random Functions Theory and Probability Methods in Automatic Control Theory

118-131

Kolmogorov, A.N. (quadratic approximations of random functions), Andreyev, N.I., Kazakov, I.Ye. (method of statistical linearization). and Dostupov, B.G. are

ANDREYEV, N.I.

103-7-2/11

AUTHOR:

ANDREYEV, N.I.

TITLE:

Determination of an Optimum Linear Dynamical System according to
a Criterion of a Particular Type of a Functional Extremum.
(Oprudenije optimal'noy chaschnogo vida, Russian)

(Avtomatika i Telemekhanika, 1957, Vol 18, Nr 7, pp 615-619 (U.S.S.R.)

PERIODICAL:

ABSTRACT:

Here a method is given for the determination of an optimum linear dynamical system according to a more general criterion than is usually found in literature. This more general criterion contains as particular cases the criterion of the dispersion of system errors and the criterion of the square initial moment of this error. The problem of finding an optimum linear dynamical system which corresponds to the functional extremum of the type investigated can be reduced to the finding of a linear dynamical system which secures the extremum of a certain square function. This function contains some undetermined (artificially introduced) coefficients.
(With 7 Slavic References).

ASSOCIATION:

Not given

PRESENTED BY:

20.9.1956

SUBMITTED:

Library of Congress

AVAILABLE:

Card 1/1

Methods of Making High-Precision Castings 989

COVERAGE: The authors of the articles in this book have attempted to elucidate various aspects of precision casting by several methods, such as casting by the lost-wax process, in gypsum cement molds, in shell molds, and in silicate-bonded molds. The following topics are discussed: mechanical properties of structural and special-purpose steels of various types during the filling of hot molds made by the lost-wax process; investigation and practical application of various materials (low-melting compositions, refractory coatings, binders, different types of gypsum for casting of nonferrous metals); techniques of making intricate shell-mold cores; etc. This collection of articles is based on materials presented at a conference on the exchange of experience in the production of precision casting, held in 1956 at the Moskovskiy dom nauchno-tehnicheskoy propagandy im. F.E. Dzerzhinskogo (Moscow Office of Scientific and Technical Propaganda im. F.E. Dzerzhinskiy).

Ozerov, V.A., Candidate of Technical Sciences. Pattern Compositions

Card 2/5

Methods of Making High-Precision Castings	989
Kazennov, S.A., Engineer. Structural Characteristics and Mechanical Properties of Steel Investment Castings	52
Khenkin, M.L., Candidate of Technical Sciences. Mechanical Properties of Investment Castings	69
Kurchman, B.S., Engineer. Special Features of Casting Heat-Resistant Alloy Parts by the Lost-Wax Process	79
Filippov, I.I., Engineer, Kuz'min, S.I., Engineer. Special Features of Casting Heat-Resistant Alloys by the Lost-Wax Process	93
Briskin, Ya.I., Engineer. Experience Gained in the Casting of Cutting Tools and Measuring Instruments in Shell Molds	100
Kolacheva, O.V., Engineer. An Investigation of the Thermal Stability of Shell Molds	112

Card 4/5

28(1)

AUTHOR:

Andreyev, N. I. (Khar'kov)

SOV/103-19-12-1/9

TITLE:

On the Theory of the Determination of an Optimum Dynamical System (K teorii opredeleniya optimal'noy dinamicheskoy sistemy)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 12,
pp 1077 - 1090 (USSR)

ABSTRACT:

In this paper there are derived the sufficient and necessary conditions for an extremum of the functional $I = \oint \{ I_1[k(t)], \dots, I_{n+1}[k(t)] \}$, which is taken as a criterion in the comparison of different dynamic systems, if the necessary and sufficient conditions for an extremum of the functional $I = \theta_1 I_1 + \dots + \theta_n I_n + I_{n+1}$ are known. The results obtained in this study can be used in the choice of optimum dynamic systems. Finally two sample problems are presented. They illustrate the method advanced for selecting an optimum system. These examples prove that the utilization of a complicated criterion (P or P^2 , where P is the maximum

Card 1/2

On the Theory of the Determination of an Optimum
Dynamical System

SOV/103-19-12-1/9

of the functional I) in some cases permit to considerably increase the factor of merit of the system selected (that is to say P or P^2).

There are 1 figure, 1 table, and 7 Soviet references.

SUBMITTED: December 9, 1957

Card 2/2

ANDREW V. N. J.

Report to be presented at the 1st Int'l Congress of the Int'l Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

- AZUREV, D.I. - "Computerizing thermoelectric gas analysers".
 ALEXEYEV, E. - "Method of determining the optimum dynamic system according to the criterion of the functional extrema, which is a given function of several other functions".
 AZERBAIS, M. A., and GABDULLIN, F. P. - "Some problems of the theory of nonlinear systems of automatic regulation with discontinuous characteristics".
 BAGDAN, S. A. - "Concerning the organization of the LEAPTON Function for nonlinear systems".
 BAKHMET, A. V. - "Graphical methods of synthesis of nonlinear systems".
 BANINA, T. M. - "Problems of the optimization of high liquid pressure for hydraulic systems".
 BAZER, B. A. - "The theory of stability of regulation systems".
 BEZENOV, V. I. - "Non-coordinate nonlinear interpolator for program control of machines".
 BESKROD, T. K. and ZAIK, A. A. - "Parametric alloy systems".
 BESKROD, V. L., TOLSTOIKOV, V. I., FRUMENKO, V. V., MALTSEV, L. V., PROTOV, O. A. - "Automated aircraft drive of the propeller installation of the second trebledeck aircraft".
 BESKROD, V. A. and TOLSTOY, B. M. - "Application of the requirement transmission function to the calculation of follower systems by the logarithmic frequency curve method".
 BULIK, R. V., KONDRAT'YEV, V. A., and PRASCHMITS, R. V. - "Contactless talomechanical systems with primary separation of channels".
 POLYANTSEV, V. I., CHERNOMOREN, P. V., MINEREDO, V. P., and PERECHAGIN, L. G. - "The maximum principle in the theory of optimum control processes".
 RABZOO, M. M. - "Autocorrelated electric drives of a metallurgical plant".
 RUMYANTSEV, I. A. - "Automatic regulation of froth-layer processes in nonferrous metallurgy".

ANDREYEV, N.I. (Khar'kov)

Determination of the optimum weight function of a pulse
system providing an extremum of a certain functional. Avtom.
i telem. 21 no.4:465-473 Ap '60. (MIRA 13:6)
(Pulse techniques(Electrons)) (Automatic control)

16,6200(1031,1329)

13,2941

AUTHOR: Andreyev, N.I. (USSR)

TITLE: A method of determining an optimum dynamic system from the criterion of extremum of a functional representing a given function of several other functionals

SOURCE: International Federation of Automatic Control. 1st Congress. Moscow, 1960. Statisticheskiye metody issledovaniya. Teoriya struktur, modelirovaniye, terminologiya, obrazovaniye. Moscow, Izd-vo AN SSSR 1961, 40-50

TEXT: The author considers the following problem: Let a random function $X(t)$, $t \in T$ be applied to the system input. It is necessary to obtain at the system output a function $U(s) = AX(t)$ which should be as near as possible to the random function $Y(s)$, $s \in S$. A is the system operator. It is assumed that the class of operators R , from which the optimum operator A is selected is given. The criterion of the closeness of functions $Y(s)$ and $U(s)$ is taken as $J(s) = \Phi \{J_1(s), \dots, J_{n+1}(s)\}$, where Φ = a given continuous function

Card 1/4

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4

A method of determining an optimum ...

of variables J_i , $J_i = J_i(s)$ are functionals such that there exists a method of determining the operator of class R, satisfying the extremum of the functional J_I .

$$J_1 = \theta_1 J_1(s) + \dots + \theta_n J_n(s) + J_{n+1}(s) \quad (8)$$

is valid for all values of parameters θ_j , $j = 1, \dots, n$. It is necessary to find the method of determining the optimum class R operator, satisfying for the extremum of functional $J = J(s)$ for every s . At all values of s , the functional J represents a function of $n+1$ variables J_i , i.e. is a function of the space of $n+1$ measurements. All further considerations, therefore, are related to an arbitrary value, in the S space, of the variable s , i.e. the variable s is considered as a parameter. The problem of finding the extremum of functional $J(s)$ is equivalent to that of finding the extrema and the greatest (the smallest) values of function Φ in the domain G of variable J_i changes. The domain G depends on initial data (on random functions $X(s)$, $Y(s)$, on the class of allowable operators) and

Card 2/4

32584
S/569/61/003/000/002/011
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A method of determining an optimum ...

on the form of functionals J_1^* . The functional J may have in general several extrema. Of interest is usually the maximum of maxima or the minimum of minima. To determine the maximum of maxima or minimum of minima, it is necessary to determine all relative extrema of J . This extrema may correspond to the extrema of function $\Phi(J_1, \dots, J_{n+1})$ or to some values of function Φ at the boundary L of the domain G . Thus the extremum is sought in the following manner: First the extrema of function Φ are determined inside the G domain and then the maximum (minimum) value of Φ at the boundary L , after which it becomes easy to choose the maximum (the smallest) value of the function over the whole closed domain G . It is assumed that there is a method of determining the optimum operator providing the extremum of J_1 . This operator depends on n parameters θ_j . It follows that the boundary of domain G is determined by the relationship $J = F(\theta_1, \dots, \theta_n)$ (13). The function $F(\theta_1, \dots, \theta_n)$ represents the values of function $\Phi(J_1, \dots, J_{n+1})$ at the boundary of G . The values of parameters $\theta_j = \theta_{j0}$ corresponding to the greatest

Card 3/4

4

A method of determining an optimum ...

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S/569/61/003/000/002/011
D201/D305

(smallest) value of function $F(\theta_1, \dots, \theta_n)$, determine the optimum operator $A = A(\theta_{10}, \dots, \theta_{n0})$ and the required extremum of J , equal to $F(\theta_{10}, \dots, \theta_{n0})$. A discussion followed in which the following took part: N. I. Andreyev (USSR) and R.L. Stratonovich (USSR). There are 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: N. Wiener, Extrapolation, interpolation and smoothing of stationary time series, N.Y., 1949.

Card 4/4

ANDREYEV, N.I., doktor tekhn.nauk, prof.; DOSTUPOV, B.G., doktor tekhn.nauk, -
prof.

"Theory of random functions and its application in automatic control."
Elektrichestvo no.11:93-94 N '61. (MIRA 14:11)
(Automatic control) (Information theory)

N.I.
ANDREYEV, ~~A.A.~~

"Optimum Techniques Applied to Nonlinear Systems with Programmed Input."

Paper to be presented at the IFAC Congress held in
Basel, Switzerland, 27 Aug to 1 Sep 63

ANDREYEV, N.I. (Moskva)

Method for solving some problems in nonlinear programming. Izv.
AN SSSR. Otd. tekh. nauk. Tekh. kib. no.1:26-33 Ja-F '63.
(MIRA 16:7)
(Programming (Electronic computers))
(Programming (Mathematics))

ANDREYEV, N.I.

"Nonlinear programming in problems of studying optimum
automatic control systems."

Report submitted to the Second Intl. Congress of the
Intl. Federation of Automatic Control. 27 Aug-4 Sep 1963
Basel, Switzerland.

ACC NR: AP6024372

SOURCE CODE: UR/0280/66/000/002/0127/0140

AUTHOR: Andreyev, N. I. (Moscow)

ORG: none

TITLE: Systems adapting themselves to the minimum of mean square error

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1966, 127-140

TOPIC TAGS: self adaptive control, mean square error, receiver selectivity, mathematic prediction

ABSTRACT: The need for and expediency of transition to self-adaptive systems is due to incomplete original information on the external conditions or on the system. The article deals with a case where the original information on external conditions is incomplete. In such cases it is expedient to convert from the ordinary (nonself-adaptive) system to a self-adaptive system, i.e. an extremal system. If the system is acted upon by random signal and noise, then the criterion for comparison must be taken as some statistical criterion, e.g. the system's mean square error. The search for the extremum of the adopted statistical criterion involves: 1) calculation of this criterion, 2) orientation toward the extremum (i.e.

Card 1/3

ACC NR: AP6024372

in this case, the minimum of the criterion. Both 1) and 2) must be adapted to and reflect the particular features of the input data and especially the completeness of the initial information on external factors. Thus, the author proposes various methods of calculating the statistical criterion and orienting the system toward the extremum of this criterion as depending on various specific cases such as: a) the pattern of distribution of the variance of noise is unknown; b) the pattern of distribution of n parameters of the correlation function of noise is unknown; c) the pattern of distribution of the variance of the useful signal is unknown; d) the pattern of distribution of n parameters of the correlation function of the signal is unknown; e) the variance of the useful signal and the variance of noise are unknown. All these cases pertain to systems adapting themselves to the minimum of error variance. Systems adapting themselves to the minimum of the mean square error are analogously designed. If the mathematical expectation m_X of the input signal differs from zero and is known, then the mathematical expectation of the system's error may be determined from the formula:

$$m_E = m_Y - m_H = \int_0^T m_X(t-\tau) w_0(\tau, x_1, \dots, x_n) d\tau - m_H = m_E(x_1, \dots, x_n).$$

where m_E is the mathematical expectation of error; m_Y is the mathematical expectation of the output signal; w_0 is the optimal weight function; x_1, \dots, x_n are the random variables; T

Card 2/3

ACC NR: AP6024372

is the time of observation (time of adjustment of the system). Hence, the mathematical expectation m_E of the error is a known function of the parameters x_1, \dots, x_n . If m_E depends on several unknown parameters then the mathematical expectation m_Y of the output signal must be determined according to the realization of this quantity. Orig. art. has: 52 formulas, 5 figures.

SUB CODE: 12, 22, 00 / SUBM DATE: 24Apr68 / ORIG REF: 004 / OTH REF: 001

Card 3/3

ACC NR: AM6026750

- Ch. 3. Determination of optimum linear continuous systems using the minimum mean square error and other analogous performance criteria -- 99
- Ch. 4. Determination of an optimum linear automatic control system using a given function of other criteria as the performance criterion -- 155
- Ch. 5. Determination of an optimum linear discrete control system from statistical criteria -- 207
- Ch. 6. Realization of almost optimal linear systems -- 260
- Ch. 7. Determination of optimum nonlinear automatic control systems -- 289
- Ch. 8. Optimum systems with computing devices -- 329
- Ch. 9. Self-adjusting automatic control systems -- 387
- Conclusion -- 405
- Supplements -- 443
- References -- 452

SUB CODE: 12/ SUBM DATE: 01Dec65/ ORIG REF: 048/ OTH REF: 011

Card 2/2

TSYGALOV, M.N., kand.tekh.nauk; ANDREYEV, N.I., gornyy inzhener.

Grouting soils of filled or caved areas with a clay and slag
solution. Gor.zhur. no.4:25-27 Ap '64. (MIRA 17:4)

ANDREYEV, V. V.; SIVYLIEV, V. S.

Comparative morphological study of "urec" in members of the Prokaryotomycetes family and their role in classification. Trudy Gel'm. lab. no. 1, 1971.

cc: MIA. September 1977

ANDREYEV, N.K.

ANDREYEV, N.K.

Hydrometeorological security of the fishing industry in the
northern part of the Caspian Sea. Meteor. i gidrol. no.10:34-35
O '57. (MIRA 10:11)
(Caspian Sea--Hydrometeorology)

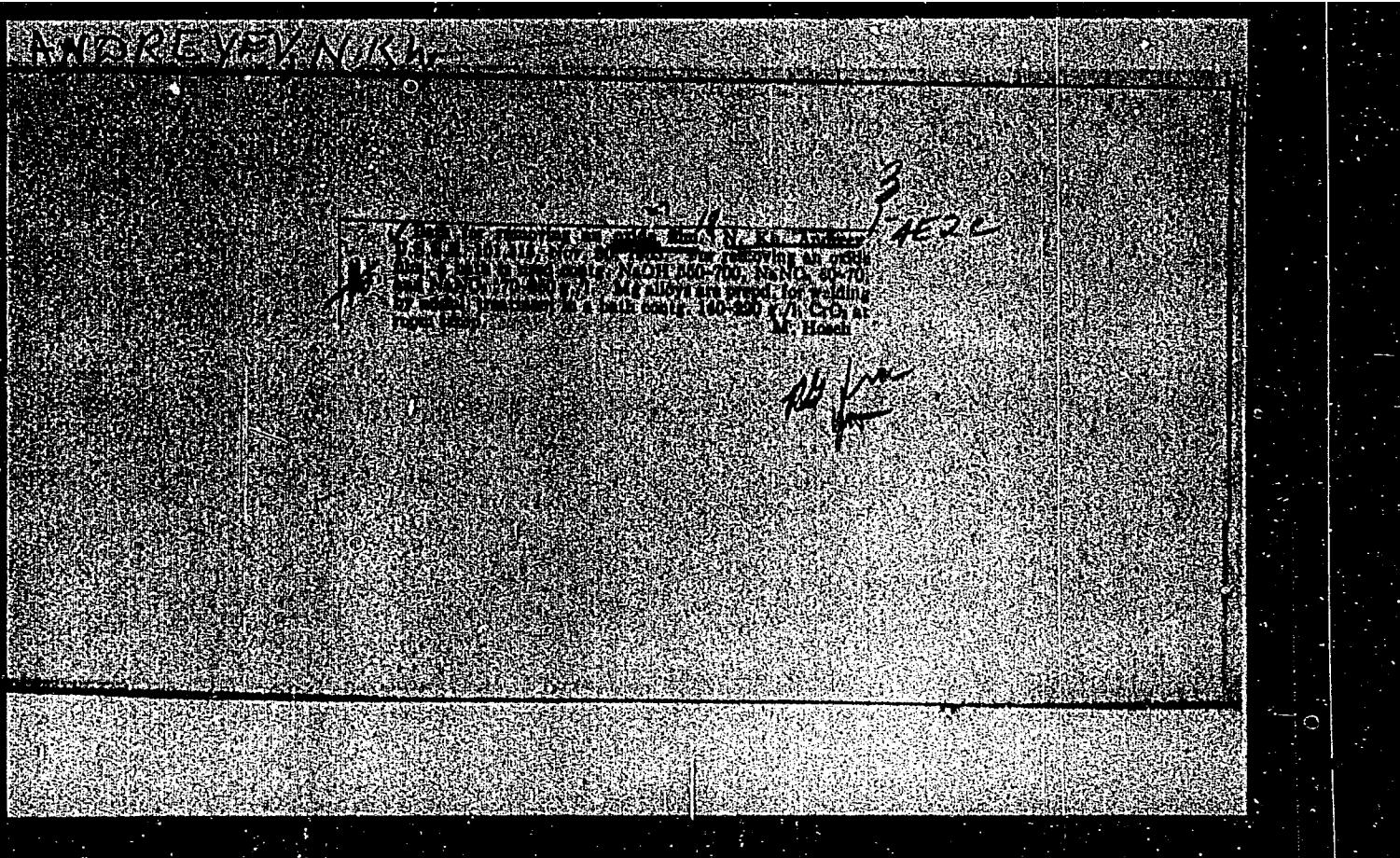
ANDREYEV, N.K.; BLYUDZE, Yu.G.; DOKUCHAYEV, O.N.; RETROVSKY, V.S.;
SMOLYAKOV, A.V.; TKACHENKO, V.M.; (Leningrad)

"Study of the main properties of pseudo-sound sources of turbulent noise".

report presented at the 2nd All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 29 January - 5 February 1964

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ANDREYEV, N.Kh.

✓ 14521* Effect of the Direction of the Welding Current on
the Formation of the Moltten Zone of a Spot-Welded Joint.
Vlivanie napravleniya svarkhnogo toka na formirovaniye
litoi zony tschechnogo svarnogo svedlinenija. (Russian.) N
Kh. Andreyev. Svarochne Proizvodstvo, 1935, no. 8, Aug., p.
4-6.

MC
Factors affecting choice of polarity in spot welding various al-
loys on d.c. machines; macrostructure of cores in fused zones.
Photographs, diagrams.

of [initials]

ANDREYEV, N. KH.

"Concerning the Increase of the Strength of Spot Welded Joints of Mg Alloy," by Candidate of Technical Sciences N. Kh. Andre-yev and N. F. Lashko, Metallovedeniye i Obraotka Metallov, No 3, Mar 57, pp 50-55

The strength of spot welded joints of the magnesium alloy, Mg, with a thickness of 3 mm, under static, repeated-static, and vibrational loadings is studied. The welded joints with working and joining points, and also similar riveted joints, were subjected to comparative tests. The test pieces were welded by the most favorable means on a machine (MTPS-600) with a direct current impulse. The diameter of the fused core of the spot consisted on the average of about 10.5 mm, and the depth of the fusion was held within the limits of 50-60%. The welded and riveted test pieces were approximately statistically of equal strength.

It was found that the strength of the welded joints (especially with working points) is considerably below the strength of the basic metal. The breakdown of the welded joints with the working points occurs at the border of the fused core or in the zone of transition. The single type riveted joint broke down at the section weakened by the hole.

ANDREYEV, N. KH.

For increasing the strength of the welded joints, the weld spots were subjected to single and multiple pressures in the interval above the elastic limit and the conditional yield point of the alloy. The pressures were exerted by steel dies with an operating surface slightly larger than the surface of the electrodes.

Thus there exists a real possibility of increasing the vibrational strength of the welded points of joints in MA8 alloy by means of treatment of the welded points with static pressure relatively low load. (U)

Sum. 1360

Andreyev, N.Kh.

135-6-4/13

SUBJECT: USSR/Welding

AUTHOR: Andreyev, N.Kh., Candidate of Technical Sciences.

TITLE: A New Method for Preparing Surfaces for Contact-Welding of Magnesium Alloy Parts (Novyi spesob pedgotevki poverkhnosti detaley iz magniyevykh splavov pod kontaktnuyu svarku).

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 6, pp 8-10 (USSR)

ABSTRACT: Subject method was developed by the author of this article who has been granted an Author's Certificate on 18 Nov 1955. Now the method is being introduced into industrial use. It consists of removing the oxide crust and the protective coating from magnesium alloy parts prior to welding, by two stages of etching:
1) the first bath contains caustic soda (300-600 gr/liter), sodium nitrate (40-70 gr/liter) and sodium nitrite (150-250 gr/liter), the temperature of the solution in this bath is 70-100°C, and the duration of etching is 10-90 sec, depending on exhaustion of solution and the shape of parts;
2) the second bath contains chromium anhydride solution (150-200 gr/liter) at room temperature, the duration of treatment in this second bath is 7-15 min. The hydroxide film formed in the

Card 1/2

ANDREYEV, N.Kh., kand.tekhn.nauk; CHULOSHNIKOV, P.L.

Welding miniature silver contacts. Av.prom. 26 no.8:41-45 Ag
'57. (MIRA 15:4)
(Electric welding)

SOV/129-59-3-11/16

AUTHOR: Andreyev, N.Kh., Candidate of Technical SciencesTITLE: Structural Changes in a Metal in the Transition Zone of
Spot-welded Joints of Magnesium Alloys (Strukturnyye
izmeneniya v metalle perekhodnoy zony svarnogo tochechnogo
scyadineniya iz magniyevykh splavov)PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,
1959, Nr 3, pp 46 - 48 (USSR)ABSTRACT: Comparison of the strength of spot-welded joints in
various magnesium alloys indicates that the loss in
strength is due to a large extent to unfavourable
structural changes in the transient zone. The experiments
covered joints in the magnesium alloys, MA8, MA1 and MA2-1.
It can be seen from the reproduction of a photograph of
the microstructure of the alloy MA8 (magnification 150
times) that the metal of the transient zone does not have
the initial deformation structure but also does not
consist of dendrites. The structure of the metal of the
weld joint (base metal, transient zone and central part
of the core) was studied by the authors under an electron
microscope (N.A. Maleyeva and R.S. Chugunova assisted in
carrying out these experiments). Weld joints made on

Card1/2

SOV/129-59-3-11/16

Structural Changes in a Metal in the Transition Zone of Spot-welded Joints of Magnesium Alloys

specimens, 2 and 3 mm thick, were investigated. Figure 1 shows the microstructure of the alloy MA8 at a magnification of 150 times. Figure 2 shows structural photographs of the same sections of the specimens produced by means of the electron microscope with a magnification of 5 500 times. The photos obtained by the electron microscope indicate that as a result of the thermal effect, peculiar changes occurred in the transient zone; inside the grains, sub-microscopic formations in the shape of extended lines orientated in various directions, starlike figures and peculiar spots could be observed. The formation of these is attributed to preparatory processes preceding fusion. It is pointed out that spot welding of duralumin under similar conditions does not bring about structural changes in the metal in the transient zone. There are 2 figures.

Card2/2

OSV/135-59-9-7/23

18(5,7)
AUTHOR:Andreyev, N. Kh., Candidate of Technical Sciences

TITLE:

Strength of Structural Elements of Spot Welded Alloys
Type D16AT and V95AT Under Multi-Static Load

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 9, pp 21-22 (USSR)

ABSTRACT:

The author presents the results of research on the strength of structural elements of spot welded aluminum alloys type D16AT and V95AT, working under multi-static load. The welding was done by impulse of direct current on the machine type MRIP-600 at optimal conditions. For the production of glue-welded elements the special glue type FL-4 of NIIPM production was used. Riveting was done under a riveting press type ZK of alloy V-65. The test was made until destruction on multi-static expansion by a 100 ton hydraulic pulsator with a frequency of 6-11 cycles per minute. The loading took place in asymmetrical cycles with the asymmetric factor 0.1 ($\sigma_{\min} = 0.1 \sigma_{\max}$). The graphs in Fig 3 show the results of these tests. The table gives detailed numerical results. The research showed that in

Card 1/2

SOV/135-59-9-7/23

Strength of Structural Elements of Spot Welded Alloys Type D16AT and V95AT Under Multi-Static Load

case of multi-static load the efficiency of spot welded structural elements of aluminum alloys type D16AT and V95AT is not lower than the efficiency of the same type riveted elements. Engineers V. A. Petrov, A. Z. Vorob'yev, N. A. Novosel'tsev and L. B. Maseyev participated in this study. There are 2 photographs, 2 drawings, 1 graph and 1 table.

Card 2/2

1.2300 1573

X25998X 26016
S/135/61/000/008/005/011
A006/A101

X

AUTHORS: Andreyev, N.Kh., Candidate of Technical Sciences, Shavyrin, V.N.,
Engineer

TITLE: On the problem of breaking tests of welded and glue-welded spot joints

PERIODICAL: Svarochnoye proizvodstvo, no. 8, 1961, 13 - 14

TEXT: The magnitude of the breaking forces is one of the static strength characteristics of spot-welded joints. This force is mainly determined by tests with standard cross or box shaped specimens. It was found that by increasing the rigidity of specimens, the breaking strength of the spot welds could be raised. This was proved by breaking tests made with new specimens of higher rigidity, due to tubular stems welded onto the specimens, coaxially to the welded spot (the stem diameter was 20 - 25 mm for AMg 6 (AMg6) alloy 1.5 + 1.5 mm thick). Breaking tests were also performed with new D16AT alloy (2+2 mm). Specimens suggested by the authors, which consisted of two lathe-turned or press-forged (rigid) cups joined by a spot weld combined with glue (glue-welded specimens), a spot weld (welded specimen), or rivets (riveted specimen). It was established that the

Card 1/2

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On the problem of breaking tests ...

strength of glue-welded specimens exceeded almost by a factor of 2 that of welded specimens of the same design and by 8% that of glue-welded standard cross-shaped specimens. The strength of the new welded specimens was by 30% higher than that of standard cross-shaped specimens and the strength of the new riveted specimens was by 10 - 12% below that of riveted standard cross-shaped specimens. A particularly high difference was observed during uniform and non-uniform break of glued specimens. Experiments confirmed the conception on the high strength of glued joints under conditions of uniform break, exceeding even that of glue-welded joints and on the very low strength of these joints during non-uniform break. The experiments lead to the following conclusions: The breaking force of welded, glue-welded and riveted specimens depend on their rigidity and the system of loading. The opinion of some authors that the glue layer in a glue-welded joint does not increase its breaking strength is not correct. In structures whose components are exposed to uniform break, the use of glue-welded joints is efficient to the same degree as in structure parts subjected to shearing stresses. There are 2 tables and 4 figures.

Card 2/2

135/62/000/006/004/014
A006/A106

AUTHOR: Andreyev, N. Kh., Candidate of Technical Sciences

TITLE: Cyclic strength of titanium and aluminum alloy and special steel spot welds

PERIODICAL: Svarochnoye proizvodstvo, no. 6, 1962, 11 - 15

TEXT: At the Moscow Institute of Machine Tools and Instruments an investigation was made of strength characteristics during cyclic loading of spot welds of parts made of the following materials: titanium alloys OT4, OT4-1 (see table); commercial titanium BT1 (VT1), special steels CH2 (SN2), alloyed with aluminum, CH 3 (SN3) alloyed with molybdenum, and ЭИ703 (EI703), containing in %: 0.06 - 0.12 C; 0.7 Mn; 0.8 Si; 0.01 B; 20 - 23 Cr; 30 - 40 Ni; 1.1 - 1.7 Ti and the rest Fe. For comparison, some data are given on the strength of spot welds for stainless steels ЭИ 654 (EI654), 1X18H9T (1Kh18N9T) and for aluminum alloys Д16Т (D16T) and АМг6 (AMg6), and also on the cyclic strength of single-type riveted joints. Engineer Yu. V. Nesterov participated in the investigation. The metals were subjected to fatigue tests of axial elongation at

Card 1/3

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A006/A106

Cyclic strength of...

an asymmetrical loading cycle, and to tests with repeated static loading. The following results were obtained. Spot welds of all the investigated materials showed highest repeated-static and fatigue strength in butt welding with a rigid, section-material strap. Overlap welds show, as a rule, relatively low cyclic strength independent of the material. Maximum reference yield limit in this type of joint is offered by SN3 steel (about 4 kg/mm^2). The fatigue limit of the other materials investigated did not exceed 2.7 kg/mm^2 . Light-alloy spot welds (AMg6, D16T) show lower susceptibility to cyclic loading than titanium-alloy and steel joints. The absolute values of repeated-static and cyclic strength of SN2 and SN3 type steel welds are higher than those of titanium alloy welds; the repeated-static and cyclic strength of the latter exceeds the strength of EI654, somewhat that of D16T single-type weld joints. This value for AMg6 aluminum alloy exceeds 350°C reduce the cyclic strength of titanium alloy weld joints; however, the repeated-static strength of EI654 steel does not decrease, and their reference fatigue limit increases on the average by 20 - 30%. There are 5 figures and 5 tables.

Card 2/3

Cyclic strength of...

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A006/A106

Table 1.

alloy grade	Composition in %					Mechanical properties (in annealed state)			
	Al	Mn	Fe	Si	C	B in kg/mm ²	δ in %	ε _n in %	HB
OT4	2-3.5	0.8-4	0.4	0.15	0.1	70 - 90	12	3.5	105 - 116
OT4-1	1-2.5	0.8-2	0.4	0.15	0.1	60 - 75	20	5.0	210 - 250

ASSOCIATION: Moskovskiy stankoinstrumental'nyy institut (Moscow Institute of
Machine Tools and Instruments)

Card 3/3

L-47/30-65 EPP(c)/EPR/EPA(c)-2/EWP(t)/SWP(k)/EWA(c)/EWT(n)/EWP(b)/T/EWP(W)
EWP(v)/EWP(t) PC-4/PF-1/PX-4/PS-4 TJP(c) EM/RM/WW/JD/HN

ACCESSION NR AM5000999

BOOK EXPLOITATION

S/ 46

B-1

Author: Grigory Grigor'yevich (Engineer); Shavyrin, Vladislav Nikolayevich
Candidate of Technical Sciences; Andreyev, Nikolay Christoforovich
Candidate of Technical Sciences; Fal'dman, Lev Semenovich (Engineer)
Glue-welded joints in mechanical engineering (Kleesvarnyye soyedineniya v
mashinostroyenii), Kiev, Izd-vo "Tekhnika", 1964, 199 p. illus., bibliog.
,600 copies printed

TOPIC TAGS: glue welding, spot welding, quality control, aluminum alloy

PURPOSE AND COVERAGE: The book reports the results of scientific and experimental work on the use of glue-welded joints in structures made from high-strength aluminum alloys. Basic attention is given to the technology of fabricating glue-welded joints, development of glue composition, glue application, preparation of surface for welding, anti-corrosion protection of glue-welded joints, mechanization and automation of the glue welding process, and its technical-economical indicators. The book includes a comparison of the strength of welded and glue-welded joints under static and cyclic loads under conditions of normal and elevated temperatures. The book is intended for engineers, designers, and researchers in various branches of machine building.

C-3 1/2

L-47730-65
ACCESSION NR AM5000999

TABLE OF CONTENTS (abridged):

- Foreword — 5
Ch. I. Permanent joints in aluminum alloy structures — 7
Ch. II. Spot welding of aluminum alloys — 13
Ch. III. Glues used in glue-welded joints — 30
Ch. IV. Technology of spot-glue-welded joints — 41
Ch. V. Strength of welded and glue-welded joints — 51
Ch. VI. Defects in glue-welded joints and methods of inspection — 115
Ch. VII. Mechanisation and automation of glue welding — 166
Ch. VIII. Recommendations on designing glue-welded joints — 186
Appendix — 194
Bibliography — 197

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SUB CODE: PM

NO REF Sov: 031

OTHER: OIO

2/27/4

ACC NR: AP6035727

SOURCE CODE: UR/0413/66/000/019/0089/0089

INVENTOR: Andreyev, N. L.

ORG: none

TITLE: Code transit. Class 42, No. 186719

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 89

TOPIC TAGS: angle measurement instrument, coding, binary code, theodolite, optic theodolite

ABSTRACT: This Author Certificate presents a code transit with horizontal and vertical limbs carrying code calibrations for coarse measurements, an optical wedge micrometer, a converter, and a photorecording device (see Fig. 1). To improve the resolving capacity of the analog-digital converter and to simplify the coding of an angle, the scale of the optical micrometer is provided with coded decimal calibrations for precise measurements. This scale is connected to the light conductor termini of the fiber optics. These termini are grouped in the apertures and act as the counters. The opposite termini are grouped so as to convert the decimal code into a binary-quinary one, and lead to the holder of the photorecording device. To eliminate the maladjustment of the code by quantizing the scales of the coarse and the precise measurements when the operator places the circle calibrations and the seconds!

Card 1/3

UDC: 528.521.621.394.14

ACC NR: AP6035727

markings to coincide with the index, it is mounted on the alidade sector of theodolite sector, which is carrying the block of the coarse measurement counter and is connected to a precise indicator and measuring wedges by means of connector which is rotated by a cone coupled by gears with levers of the optical micrometer dial.

Card 2/3

ACC NRI AP6035727

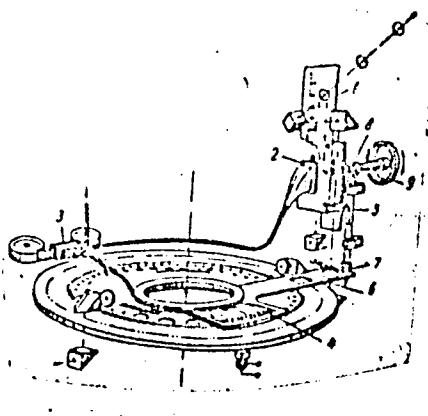


Fig. 1. 1 - precision measurement scale
of the optical micrometer; 2 - aperture-
counters; 3 - holder; 4 - sector of the
coarse measurement counter; 5 - measuring
wedges; 6 - lever; 7 - cone; 8 - gears;
9 - optical micrometer dial

SUB CODE: 13/ SURM DATE: 25Mar65

Card 3/3

ANDREYEV, N.M., inzh.

Classifying the consumers of electric power at construction sites of hydroelectric power stations by categories of uninterrupted power supply. Gidr. i stroi. 30 no.5:26-29 My '60. (MIRA 14:5)
(Hydroelectric power stations)
(Electric power)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101520004-8

NEW YORK, N. Y.

One-Mile-Off-Lake T-13, New York, June 1, 1952.

Re: [REDACTED] June 1952.

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101520004-8"

TKACHEV, V.V., inzh.; DUBOV, A.M., inzh.; OGARENOV, V.N., inzh.; ANDREEV,
N.M., inzh.; KAL'KA, R.R., inzh.; NOGINSKII, inzh.

Effectiveness of grinding in mills of closed and open cycles.
TSement Jl no.2:13-14 Mr-Ap '65. (Mash 18:8)

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Leningrad, i tsementnyy zavod "Punene Kunda".

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ANDREYEV, N.N., inzhener, retsenzent; YEGORKINA, L.I., inzhener,
redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Reference book on equipment for repair shops and plants in
agriculture] Spravochnik po oborudovaniyu remontnykh masterskikh
i zavodov sel'skogo khoziaistva. Izd. 3-e, perer. i dop.
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DOLZHENKOV, Andrey Timofeyevich, dotsent; kand.tekhn.nauk; ANDREYEV,
Nikolay Nikolayevich, dotsent; DOKUCHAYEVA, Avgusta Perfil'evna,
dotsent; KOZLOV, Ivan Pavlovich, starshiy prepodavatel'; KISELEV,
Ivan Ivanovich, dotsent; PARAMZIN, Ivan Ivanovich, dotsent;
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(MIRA 13:4)

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 2. Kafedra tekhnologicheskogo oborudovaniya pishchevykh proizvodstv (for Krupin, Lapshin, Pavlov).
 3. Kafedra ekonomiki i organizatsii proizvodstva (for Belyayev).
 4. Kafedra detaley mashin i pod'yemno-transportnykh mashin (for Gordeyev).
 5. Kafedra grafiki (for Mar'yanovskiy).
 6. Kafedra promyshlannoy teplotekhniki (for Zhilov).
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- (Refrigeration and refrigerating machinery)
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SEDOV, V.M., inzhener, fëtsezent; MORGULIS, Yu.B., kandidat
tekhnicheskikh nauk redaktor; PETROV, G.I., inzhener, zaveduyu-
shchiy redaktsiyey; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[The D50 series locomotive and marine engines] Teplovoznye i
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13G43

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already exploited areas. Gives percentage increases
in catch for various types of fish in scattered areas.
Mentions increase in number of shutter casting nets
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LC

13G43

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1949, no. 9, s. 30-35

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AHDREYEV, N.N., kand.tekhn.nauk

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114-123 '59. (MIRA 13:8)
(Fishing nets)

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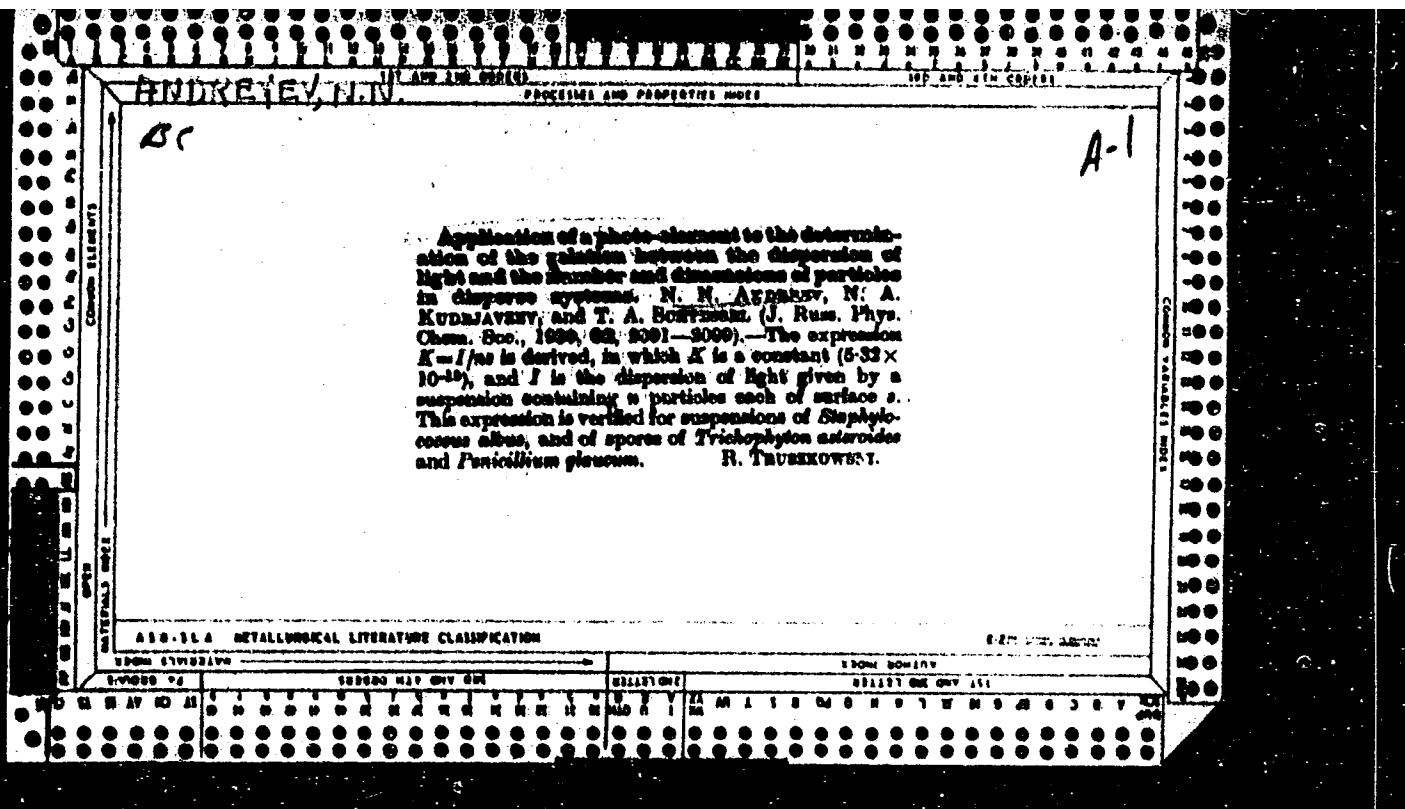
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1748
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1748
Radiation of a Sound in Water as affected by
Depth of Submersion. N. N. Andreyev, I. M.
Bukhovskikh & L. D. Rosenberg. (C.R. Acad.
S. U.R.S.S., 6th May 1949, Vol. 47, No. 6,
pp. 1581-1582. In English). Description of experiments carried out to confirm the theory put forward

by Bukhovskikh (see 1744 above). The experimental curves follow the theoretical curves well, and variations about them can be explained by interference due to multiple reflections between bottom and surface. The maximum sound pressure is attained at a depth of a quarter of a wavelength, as predicted by theory.

ANDREEV, N. N.

S.A

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537.228.1 : 621.396 611.21 82 2558
Piezoelectric crystals and their application. ANDREEV,
N. N. Elektricheskie (No. 2) 5-13 (1947) In Russian.—
[Abstr. 2332 B (1947)].
537.228.3 : 535.515 see Abstr. 2526
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ANDREEV, N.

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IA 170T98

USSR/Physics - Acoustics

Mar 49

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"Uspekhi Fiz Nauk" Vol XXXVII, No 3, pp 269-315

Lengthy, general, historical, and nonmathematical discussion of acoustics of chambers; sound absorption; sound intensification; sound insulation; sound measurements. Gives extensive bibliography of 421 references covering all Russian works on architectural acoustics from 1891 to 1948.

170T98

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SP: MM. September 1, 1952.

ANDREYEV N.N.

2

✓ Lorentz-Lorentz formula for crystals. N. N. Andreyev
Pomyati Sergaya Ivanovicha Vasilova, Akad. Nauk SSSR.
1952, 880-3.—The object was to find a generalization of the
Lorentz formula for all cryst. media without using formulas
for isotropic media as the basis of calcn. The calcns. pre-
sented are limited to linear crystals, where polarization is a
linear function of the field. The formula derived, $(\epsilon - 1)/$
 $4\pi d = \alpha/11 - (\delta/M)\nu M$, does not differ basically from the
ordinary Lorentz expression except for the often accepted
condition that $\nu \neq 4\pi/3$. The calcns. developed can be
applied in their entirety to piezocrystals. N.O.

RUL'YE, K.P.; DAVITASHVILI, L.Sh.; MIKULINSKIY, S.R.; PETROVSKIY, I.G., akademik, redaktor; ANIREYEV, N.N., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; OPARIN, A.I., akademik, redaktor; SCHMIDT, O.Yu., akademik, redaktor; SHCHERBA-KOV, D.I., akademik, redaktor; YUDIN, P.Y., akademik, redaktor; KOSHTOYANTS, Kh.S., redaktor; SAMARIN, A.M., redaktor; MAKSIMOV, A.A., redaktor; LEBEDEV, D.M., doktor geograficheskikh nauk, redaktor; FIGUROVSKIY, N.A., doktor khimicheskikh nauk, redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; OZNOBISHIN, D.V., kandidat istoricheskikh nauk, redaktor;

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(Biology)

ANDREYEV, N.N.

GADOLIN, A.V.; ANSHELES, O.M., redaktor; SHAFRANOVSKIY, I.I., redaktor;
FRANK-KAMENETSKIY, V.A., redaktor; SAZONOV, L.S., redaktor; PETROV-
SKIY, I.G., akademik, redaktor; ANDREYEV, N.N., akademik, redaktor;
BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor;
OPARIN, A.I., akademik, redaktor; SHMIDT, O.Yu., akademik redaktor;
SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik,
redaktor; KOSHTOYANTS, Kh.S., redaktor; MAKSIMOV, A.A., redaktor;
SAMARIN, A.M., redaktor; LEBEDEV, D.M., doktor geograficheskikh nauk,
redaktor; FIGUROVSKIY, N.A., doktor khimicheskikh nauk, redaktor;
KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; OZNORISHIN,
D.V., kandidat istoricheskikh nauk, redaktor; SMIRNOVA, A.V.,
tekhnicheskiy redaktor

[Development of all crystallographic systems and their subdivisions
from a common origin] Vyvod vsekh kristallograficheskikh sistem i ikh
podrazdelenii iz odnogo obshchego nachala. Redaktsiya i primechaniya
O.M.Anshelesa, I.I.Shafranovskogo, V.A.Frank-Komenetskogo. [Leningrad]
Izd-vo Akademii nauk SSSR, 1954. 155 p. (MLRA 7:10)

1. Chlen-korrespondent AN SSSR (for Koshtoyants, Maksimov, Samarin)
(Crystallography)

ANDREYEV, N.N.

AMPERE, Andre Marie, 1775-1836; DORFMAN, Ya.G., professor redaktor; ZAYCHIK, N.K., redaktor; PETROVSKIY, I.G., akademik, redaktor; ANDREYEV, N.N., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; OPARIN, A.I., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik, redaktor; KOSHTOYANTS, Kh.S., redaktor; MAKSIMOV, A.A., redaktor; SAMARIN, A.M., redaktor; LEBEDIEV, D.M., doktor geograficheskikh nauk, redaktor; FIGUROVSKIY, N.A., doktor khimicheskikh nauk, redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; OXOBISHIN, D.V., kandidat istoricheskikh nauk, redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor

[Electrodynamics] Elektrodinamika. Redaktsiia, stat'i i primechaniiia IA.G.Dorfmana. [Leningrad] Izd-vo Akademii nauk SSSR, 1954. 492 p.

(MIRA 7:10)

1. Chlen-korrespondent AN SSSR (for Koshtoyants, Maksimov, Samarin)
(Electrodynamics)

ANDREYEV, N.N.

BREDIKHIN, F.A.; DUBYAGO, A.D.; ORLOV, S.V., redaktor; GUROV, K.P., re-daktor; PETROVSKIY, I.G., akademik, redaktor; ANDREYEV, N.N., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; OPARIN, A.I., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik, redaktor; KOSHTOYANTS, Kh.S., redaktor; SAMARIN, A.M., redaktor; MAKSIMOV, A.A., LEBEDEV, D.M., doktor geograficheskikh nauk, redaktor; FIGURCVSKIY, N.A., doktor khimicheskikh nauk, redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; OZNODISHIN, D.V., kandidat istoricheskikh nauk, redaktor; ZELENKOVA, Ye.V., tekhnich. red.

[Studies on meteors] Etudy o meteorakh. Stat'ia i kommentarii A.D. Dubago. Red. S.V.Orlova. Moskva, Izd-vo Akademii nauk SSSR, 1954. 606 p.

(MLRA 7:12)

1. Chlen-korresp. AN SSSR (for Orlov, Koshtoyants, Samarin, Maksimov)
(Meteors)

U R E X E V / M . N .
VESALIUS, Andreas: TERNOVSKIY, V.N., redaktor, [translator]; SHESTAKOV, S.P.,

[translator]; PAVLOV, I.P., akademik; PETROVSKIY, I.G., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; OPARIN, A.I., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor; ANDREYEV, N.N., akademik, redaktor; KOSHTOYANTS, Kh.S., redaktor; SAMARIN, A.M., redaktor; MAKSIMOV, A.A., redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik, redaktor; LEBEDEV, D.M., doktor geograficheskikh nauk, redaktor; FIGUROVSKIY, N.A., doktor khimicheskikh nauk, redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; OZNOBISHIN, D.V., kandidat istoricheskikh nauk, redaktor; SHIDLOVSKAYA, O.G., redaktor; RUDNEVA, O.A., redaktor; KISELEVA, A.A., tekhnicheskiy redaktor.

[Structure of the human body: in 7 books] O stroenii chelovecheskogo tela; v semi knigakh. Perevod s latinskogo V.N.Ternovskogo i S.P.Shestakova. Red. V.N.Ternovskogo. Posleslovie I.P.Pavlova. [Moskva] Izd-vo Akademii nauk SSSR. Vol. 2. 1954. 960 p.

(MLRA 7:11)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Ternovskiy)
2. Chlen-korrespondent Akademii nauk SSSR (for Shestakov, Koshtoyants, Samarin, Maksimov)

(Anatomy. Human--Early works to 1800)

ANDREYEV, N. N.
USSR/Medicine - Conferences

Card 1/1 Pub. 124 - 16/26

Authors : Andreyev, N. N., Academician

Title : Problems of physiological acoustics

Periodical : Vest. AN SSSR 12, 75-77, Dec 1954

Abstract : Minutes are presented of a meeting held at the I. P. Pavlov Institute of Physiology, at which various problems concerning physiological acoustics were debated.

Institution : ...

Submitted : ...

ANDREYEV, N. N.

MARKOVNIKOV, V.V.; PLATE, A.F., doktor khimicheskikh nauk, redaktor;
BYKOV, G.V., kandidat khimicheskikh nauk, redaktor; PETROVSKIY,
I.B., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZAN-
SKIY, B.A., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor;
ANDREYEV, N.N. akademik, redaktor; SHCHERBAKOV, D.I., akademik,
redaktor; YUDIN, P.F., akademik, redaktor; DELONE, B.N., redaktor
KOSHTOYANTS, Kh. S., redaktor; SAMARIN, A.M., redaktor, LEBEDEV,
D.M.. professor, redaktor; FIGUROVSKIY, N.A., professor, redaktor;
KUZNETSOV, I.V., kandidat filologicheskikh nauk, redaktor; STERLI-
GOV, O.D., redaktor; ZEMLYAKOVA, T.A., tekhnicheskij redaktor

[Selected works] Izbrannye trudy. Redaktsiya, stat'i i primechaniia
A.F. Plate i G.V. Bykova, Moskva, Izd-vo Akademii nauk SSSR 1955.
926 p.

(MLRA 8:10)

1. Chlen-korrespondent AN SSSR (for Delone, Koshtoyants, Samarin)
(Chemistry) (Markovnikov, Vladimir Vasil'evich 1837-1904)

ANDREYEV, N.N.

PHASE I BOOK EXPLOITATION 811

Akademiya nauk SSSR

Sbornik posvyashchenny pamyati Akademika P.P. Lazareva (Collection of Articles
in Memory of Academician P.P. Lazarev) Moscow, Izd-vo AN SSSR, 1956. 374 p.
1,600 copies printed.

Resp. Ed.: Shuleykin, V.V., Academician; Editorial Board: Shuleykin, V.V.,
Academician, Deryagin, B.V., Corresponding Member, Academy of Sciences, USSR,
Frank, G.M., Corresponding Member, Academy of Medical Sciences, USSR, Volarovich,
M.P., Professor, Yefimov, V.V., Professor, Maslov, N.M., Kuzin, A.M., Professor;
Ed. of Publishing House: Kuznetsova, Ye.B.; Tech. Ed.: Shevchenko, G.N.

PURPOSE: This compilation of articles is published in honor of P.P. Lazarev.

COVERAGE: The collection consists of three parts; the first group of articles
deals with general physics, the second with biophysics and physiology, the third
with geophysics. In the Table of Contents, the date on which the article was
received follows each title.

TABLE OF CONTENTS:

Card 1/6

Collection of Articles (Cont.) 811

PART I. GENERAL PHYSICS

<u>Andreyev, N.N.</u> , Member, Academy of Sciences. Comments on the Thermodynamic Theory of Electrostriction (January 1953)	5
Arkad'yev, V.K., Corresponding Member, Academy of Sciences (Deceased). Simplest Form of Solid Bodies of Greater Than Limiting Volume (June 1953)	11
Botvinkin, O.K. On the Variability of Some Physical Constants in Industrial Glass (May 1953)	27
Vartanyan, A.T. Photoelectric Phenomena in Pigments (January 1953)	30
Vershinskaya, V.F. Relationship Between the Height of a Mound of Loose Material and Gravity (June 1953)	51
Volarovich, M.P. Investigation of the Uniformity of a Stress Field and Study of the Process of Formation of Cracks in Double-sheared Samples (January 1953)	57
Deryagin, B.V., Corresponding Member, Academy of Sciences, Karasev, V.V.,	

Card 2/6

GILBERT, William; DOVATUR A.I.[translator]; KALASHNIKOV, A.G., redaktor; PETROVSKIY, I.G., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor; ANDREYEV, N.N., akademik, redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik, redaktor; DELONE, B.N., redaktor; KOSHTOYANTS, Kh.S., redaktor; SAMARIN, A.M., redaktor; LEBEDEV, D.M., professor, redaktor; FIGUROVSKIY, N.A., professor, redaktor; KUZNETSOV, I.V., kandidat filosofskikh nauk, redaktor; PETROVA, G.N., redaktor; AUZAN, N.P., tekhnicheskiy redaktor.

[The magnet, magnetic bodies, and the great magnet the earth; a new physiology, demonstrated by many arguments and experiments. Translated from the Latin by A.I.Dovatur] O magnite, magnitnykh telakh i o bol'shom magnite-zemle; novaya fiziologiya, dokazannaya mnoghestvom argumentov i opytov. Perevod s latinskogo A.I.Dovatura. Red., stat'ia i kommentarii A.G.Kalashnikova. Moskva, Izd-vo Akademii nauk SSSR, 1956. 411 p.
(MLRA 9:6)

1.Chlen-korrespondent AN SSSR (for Delone, Koshtoyants, Samarin).
(Magnetism)

ANDREYEV, N. N.

ROZENBERG, Lazar' Davydovich; ANDREYEV, N.N., otvetstvennyy redaktor;
VEGER, A.L., redaktor izdatel'stva; PRUSAKOVA, T.A., tekhnicheskiy
redaktor

[Uses of ultrasonics] Primenenia ultrazvuka. Moskva, Izd-vo
Akad.nauk SSSR, 1957. 103 p. (MLRA 10:10)
(Ultrasonic waves--Industrial application)

ANDREYEV, N. N.

STENON, Nikolay [Steno, Nicolaus]; STRATANOVSKIY, G.A. [translator];
BELOUSOV, V.V., redaktor; SHAFRANOVSKIY, I.I., professor, redaktor;
PETROVSKIY, I.G., akademik, redaktor; ANDREYEV, N.N., akademik,
redaktor; BYKOV, K.M., akademik, redaktor; KAZANSKIY, B.A., akademik,
redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akademik,
redaktor; DELCHE, P.N., redaktor; KOSHTOYANTS, Kh.S., redaktor;
SAMARIN, A.M., redaktor; LEBEDEV, D.M., professor, redaktor; FIGUROV-
SKIY, M.A., professor, redaktor; KUZNITSOV, I.V., kandidat filosof-
skikh nauk, redaktor; ZAYCHIK, N.K., redaktor izdatel'stva; SMIRNOVA,
A.V., tekhnicheskiy redaktor

[A solid body enclosed by nature within a solid. Translated from
the Latin] O tverdom, estestvenno soderzhashchensin v tverdom.
Perevod G.A.Stratanovskogo. Redaktsiya, stat'i i primechaniya
V.V.Belousova, i I.I.Shafranovskogo. [Leningrad] Izd-vo Akad.nauk
SSSR, 1957. 150 p. (MLRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Belousov, Delane,
Koshtoyants, Samarin)
(Geology)

ANDREYEV, N.N.

AUTHOR: Busnel, R.G.

46-2-18/23

TITLE: "Colloque sur l'acoustique des orthoptères", Paris,
445 pages. Review by N.N. Andreyev.

PERIODICAL: "Akusticheskiy Zhurnal" (Journal of Acoustics), 1957,
Vol.3, No.2, p. 200 (U.S.S.R.)

ABSTRACT: A review of the book thought to be of importance for
scientists studying the acoustics of insects.

AVAILABLE: Library of Congress

Card 1/1